

How to use DOB SynScan (GoTo) Upgrade Kit

WARNING: The following procedures should be done by professional authorized dealers only. Users who like to Do-It-Yourself should bear their own risk. Sky-Watcher Telescope is not responsible for the damages resulting from installation attempts.



Figure 1 Dob Collapsible OTA

For mounting a DOB Traditional, DOB Collapsible, or Newtonian reflector telescope tube OTA on a SynScan Dob GOTO upgrade kit, user should replace one of the side bearings on the tube with a bracket that comes with the upgrade kit.

Please read the following instructions on how to best finish the job.

1. Remove the side bearing which is on the side of the focuser.
If the telescope is a traditional solid tube type, we recommend you to remove the primary mirror from the tube first. Then you can remove the side bearing through the bottom of the tube. To remove the primary mirror, simply remove the 6 screws around the bottom of the tube and keep the primary mirror at a safe place to avoid damaging the surface of the mirror.
If your telescope is a collapsible type, there is no need to remove the primary mirror from the tube.
Please keep the removed side bearing, screws, and washers in a safe place for future use.

2. Installing the mount bracket.
From the DOB SynScan (GoTo) Upgrade kit, locate the new mount bracket (shown in **Figure 2**). Install the new mount bracket at the same location as the removed side bearing. The two horizontal mounting holes should fit into the holes on the tube.
Use two short flat head screws to fix the bracket onto the tube. Apply a washer between the nut and wall of the tube. The telescope with the new bracket installed should look like **Figure 3**.



Figure 2



Figure 3

3. Installing the extra mounting screws.

If you would like to have the maximum stability, you should fix the bracket with two extra screws. You will need to drill two 6mm diameter holes on the tube.

Mark the positions of the two extra holes on the tube (as shown in **Figure 3**), then remove the bracket to drill holes on the tube. Install the bracket back onto the tube. Use two round head screws for the two extra holes.

Tips for leaving primary mirror on tube: Drilling the holes will produce residue. To avoid the residue from damaging the primary mirror, we recommend you to put the tube up-side-down with the primary mirror on the top or put the tube horizontally while drilling, and clean the residue right after drilling.

4. If you have removed the primary mirror, install it back onto the tube carefully. You might need to do a collimation adjustment before using the telescope again.



Figure 4 Dob Collapsible OTA installed on Dob SynScan Upgrade Kit